

# Nissan X-Trail T31 2007-2014 Workshop Manual

## TIMING CHAIN

### Exploded View



- |                                                   |                                               |                               |
|---------------------------------------------------|-----------------------------------------------|-------------------------------|
| 1. Timing chain                                   | 2. Timing chain tensioner                     | 3. Camshaft sprocket (EX)     |
| 4. Timing chain guide (front cover side)          | 5. Oil filter cap                             | 6. Front cover                |
| 7. Sprocket                                       | 8. Intake valve timing control solenoid valve | 9. Camshaft pulley bolt       |
| 10. Camshaft pulley                               | 11. Front oil seal                            | 12. Drive belt auto-tensioner |
| 13. Timing chain tension guide (front cover side) | 14. Camshaft sprocket                         | 15. Balance shaft sprocket    |

Align the matching marks of each sprocket with the matching marks of timing chain.

1. Camshaft sprocket (EX)
2. Camshaft sprocket (IN)
3. Timing chain
4. Matching mark (chain low link)
5. Matching mark (tensioner)
6. Matching mark (water pump\*)
7. Matching mark (water pump)
8. Matching mark (tensioner)

- 1. There are 2 water pumps in camshaft sprocket (IN). The water one is a matching mark.
- 2. If these matching marks are aligned, rotate the camshaft slightly by hand to align the timing mark to correct the position.

**CAUTION:**  
Check the timing mark position of each sprocket and timing chain before installing the timing chain.

Install the timing chain tension guide (3) and the timing chain guide (4).

1. Timing chain



Install timing chain tensioner (7).

- Fix the plunger at the most compressed position using a stopper pin (4), and then install it.
- Securely pull out the stopper pin after installing the timing chain tensioner.

# Nissan X Trail Workshop Manual On Clutch

**Chao Zhang**



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